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PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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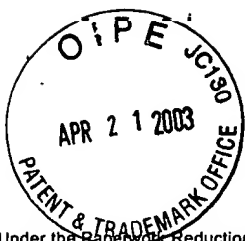
<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	<b>Patent Application Number</b>	6,254,070	
	<b>Issue Date</b> <del>Filing Date</del>	07/03/2001	
	<b>Title</b> <del>First Name and Invention</del>	Shock Absorption Mount	
	<b>Group Art Unit</b>		
	<b>Examiner Name</b>		
<b>Total Number of Pages in This Submission</b>	10	<b>Attorney Docket Number</b>	

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input checked="" type="checkbox"/> Assignment Papers <del>Not an Application</del> <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below)
<b>Remarks</b>		Please send correspondence to: NORTHROP GRUMMAN CORPORATION Terry J. Anderson M/S 30/110/31 1840 Century Park East Los Angeles, CA 90067-2199

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Northrop Grumman Corporation Terry J. Anderson
Signature	
Date	6/12/02

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 6-12-02			
Typed or printed name	Isabel Mitsch		
Signature		Date	6-12-2002

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04-22-03

1757

PTO/SB92 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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**GROUP 1700**

APR 24 2003

on April 17 , 2003

Date

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Signature

Isabel Mitsch

Typed or printed name of person of signing Certificate

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

1. Revocation of Power of Attorney or Authorization of Agent
2. Power of Attorney or Authorization of Agent
3. Statement Under 37 CFR 3.73(b)
4. Copy of Notice of Recordation of Assignment Document
5. Change of Correspondence Address

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PTO/SB/82 (10-00)

Approved for use through 10/31/2002. OMB 0651-0035  
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#8  
MONT  
4-30-03

## REVOCATION OF POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	09/803,035
Filing Date	03-12-2001
First Named Inventor	SMITH, Dave
Group Art Unit	
Examiner Name	
Attorney Docket Number	000244-270

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

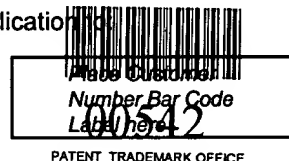
☒ A Power of Attorney or Authorization of Agent is submitted herewith.

OR

☒ Please change the correspondence address for the above-identified application:

☒ Customer Number 00542

OR



☐ Firm or  
Individual Name

Address

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City

Country

State

ZIP

Telephone

Fax

I am the:

**GROUP 1700**

☐ Applicant/Inventor.

APR 24 2003

☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**RECEIVED**

### SIGNATURE of Applicant or Assignee of Record

Name

John H. Mullan

Signature

Date

4/15/2003

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ \*Total of \_\_\_\_\_ forms are submitted.

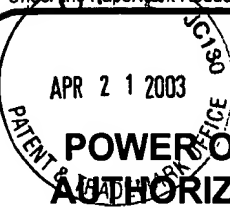
Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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PTO/SB/81 (02-01)  
Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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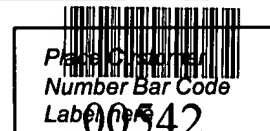
 <b>POWER OF ATTORNEY OR AUTHORIZATION OF AGENT</b>	<b>Application Number</b>	09/803,035
	<b>Filing Date</b>	03-12-2001
	<b>First Named Inventor</b>	SMITH, Dave
	<b>Title</b>	Radiation Shielding
	<b>Group Art Unit</b>	
	<b>Examiner Name</b>	
	<b>Attorney Docket Number</b>	000244-270

I hereby appoint:

☒ Practitioners at Customer Number

00542

☐ Practitioner(s) named below:



PATENT & TRADEMARK OFFICE

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number

Place Customer  
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☐ Firm or  
Individual Name

Address

Address

City

State

Zip

Country

Telephone

Fax

**GROUP 1700**

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

APR 24 2003

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**SIGNATURE of Applicant or Assignee of Record**

Name

John H. Mullan

Signature

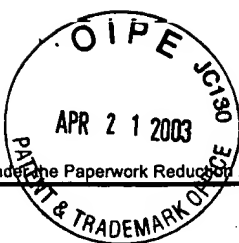
Date

4/15/2003

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Northrop Grumman CorporationApplication No./Patent No.: 09/803,035 Filed/Issue Date: 03-12-2001Entitled: RADIATION SHIELDINGNorthrop Grumman, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

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☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

4/15/2003

Date

John H. Mullan

Typed or printed name

SignatureCorporate Vice President & Secretary

Title



AUGUST 12, 2002

NORTHROP GRUMMAN CORPORATION  
TERRY J. ANDERSON  
1840 CENTURY PARK EAST  
LOS ANGELES, CA 90067

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Chief Information Officer  
Washington, DC 20231  
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PATENT DEPARTMENT



\*102128651A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/12/2002

REEL/FRAME: 012967/0884  
NUMBER OF PAGES: 9

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

NEWPORT NEWS SHIPBUILDING AND DRY  
DOCK COMPANY

DOC DATE: 03/28/2002

GROUP 1700

APR 24 2003

ASSIGNEE:

NORTHROP GRUMMAN CORPORATION  
1840 CENTURY PARK EAST  
M/S 30/110/31  
LOS ANGELES, CALIFORNIA 90067

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SERIAL NUMBER: 09462235  
PATENT NUMBER: 6254070

FILING DATE: 01/04/2000  
ISSUE DATE: 07/03/2001

SERIAL NUMBER: 09447520  
PATENT NUMBER: 6223676

FILING DATE: 11/23/1999  
ISSUE DATE: 05/01/2001

SERIAL NUMBER: 09408434  
PATENT NUMBER: 6174125

FILING DATE: 09/29/1999  
ISSUE DATE: 01/16/2001

SERIAL NUMBER: 09021723  
PATENT NUMBER: 6077022

FILING DATE: 02/10/1998  
ISSUE DATE: 06/20/2000

SERIAL NUMBER: 29097352	FILING DATE: 12/04/1998
PATENT NUMBER: D412966	ISSUE DATE: 08/17/1999
SERIAL NUMBER: 08730920	FILING DATE: 10/18/1996
PATENT NUMBER: 5875955	ISSUE DATE: 03/02/1999
SERIAL NUMBER: 08920651	FILING DATE: 08/29/1997
PATENT NUMBER: 5841147	ISSUE DATE: 11/24/1998
SERIAL NUMBER: 08891595	FILING DATE: 07/11/1997
PATENT NUMBER: 5838861	ISSUE DATE: 11/17/1998
SERIAL NUMBER: 08587552	FILING DATE: 01/17/1996
PATENT NUMBER: 5832859	ISSUE DATE: 11/10/1998
SERIAL NUMBER: 08546317	FILING DATE: 10/20/1995
PATENT NUMBER: 5783893	ISSUE DATE: 07/21/1998
SERIAL NUMBER: 08710457	FILING DATE: 09/18/1996
PATENT NUMBER: 5758861	ISSUE DATE: 06/02/1998
SERIAL NUMBER: 08608588	FILING DATE: 02/28/1996
PATENT NUMBER: 5738386	ISSUE DATE: 04/14/1998
SERIAL NUMBER: 08496928	FILING DATE: 06/30/1995
PATENT NUMBER: 5691589	ISSUE DATE: 11/25/1997
SERIAL NUMBER: 08593158	FILING DATE: 02/01/1996
PATENT NUMBER: 5661768	ISSUE DATE: 08/26/1997
SERIAL NUMBER: 08336503	FILING DATE: 11/09/1994
PATENT NUMBER: 5633904	ISSUE DATE: 05/27/1997
SERIAL NUMBER: 08463576	FILING DATE: 06/05/1995
PATENT NUMBER: 5632805	ISSUE DATE: 05/27/1997
SERIAL NUMBER: 08310946	FILING DATE: 09/23/1994
PATENT NUMBER: 5625549	ISSUE DATE: 04/29/1997
SERIAL NUMBER: 08520463	FILING DATE: 08/28/1995
PATENT NUMBER: 5622572	ISSUE DATE: 04/22/1997
SERIAL NUMBER: 08642123	FILING DATE: 05/02/1996
PATENT NUMBER: 5613460	ISSUE DATE: 03/25/1997
SERIAL NUMBER: 08512590	FILING DATE: 08/08/1995
PATENT NUMBER: 5590474	ISSUE DATE: 01/07/1997
SERIAL NUMBER: 08329929	FILING DATE: 10/27/1994
PATENT NUMBER: 5586801	ISSUE DATE: 12/24/1996
SERIAL NUMBER: 08434057	FILING DATE: 05/03/1995
PATENT NUMBER: 5580104	ISSUE DATE: 12/03/1996

SERIAL NUMBER: 08445690	FILING DATE: 05/22/1995
PATENT NUMBER: 5576943	ISSUE DATE: 11/19/1996
SERIAL NUMBER: 08345537	FILING DATE: 11/28/1994
PATENT NUMBER: 5526766	ISSUE DATE: 06/18/1996
SERIAL NUMBER: 08298095	FILING DATE: 08/23/1994
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SERIAL NUMBER: 08373051	FILING DATE: 01/17/1995
PATENT NUMBER: 5498135	ISSUE DATE: 03/12/1996
SERIAL NUMBER: 08140663	FILING DATE: 10/21/1993
PATENT NUMBER: 5452677	ISSUE DATE: 09/26/1995
SERIAL NUMBER: 08105516	FILING DATE: 08/11/1993
PATENT NUMBER: 5429338	ISSUE DATE: 07/04/1995
SERIAL NUMBER: 08109634	FILING DATE: 08/20/1993
PATENT NUMBER: 5383741	ISSUE DATE: 01/24/1995
SERIAL NUMBER: 08062812	FILING DATE: 05/11/1993
PATENT NUMBER: 5363791	ISSUE DATE: 11/15/1994
SERIAL NUMBER: 07925955	FILING DATE: 08/05/1992
PATENT NUMBER: 5345058	ISSUE DATE: 09/06/1994
SERIAL NUMBER: 08017690	FILING DATE: 02/12/1993
PATENT NUMBER: 5333913	ISSUE DATE: 08/02/1994
SERIAL NUMBER: 08100621	FILING DATE: 07/30/1993
PATENT NUMBER: 5319686	ISSUE DATE: 06/07/1994
SERIAL NUMBER: 07938420	FILING DATE: 08/31/1992
PATENT NUMBER: 5286116	ISSUE DATE: 02/15/1994
SERIAL NUMBER: 07764505	FILING DATE: 09/18/1991
PATENT NUMBER: 5229677	ISSUE DATE: 07/20/1993
SERIAL NUMBER: 07945843	FILING DATE: 09/16/1992
PATENT NUMBER: 5219115	ISSUE DATE: 06/15/1993
SERIAL NUMBER: 07950796	FILING DATE: 09/24/1992
PATENT NUMBER: 5205536	ISSUE DATE: 04/27/1993
SERIAL NUMBER: 07745350	FILING DATE: 08/15/1991
PATENT NUMBER: 5199912	ISSUE DATE: 04/06/1993
SERIAL NUMBER: 07755338	FILING DATE: 09/05/1991
PATENT NUMBER: 5191162	ISSUE DATE: 03/02/1993
SERIAL NUMBER: 07786708	FILING DATE: 11/01/1991
PATENT NUMBER: 5186117	ISSUE DATE: 02/16/1993



SERIAL NUMBER: 07753391  
PATENT NUMBER: 5176092

SERIAL NUMBER: 07767648  
PATENT NUMBER: 5170005

SERIAL NUMBER: 07341828  
PATENT NUMBER: 5080313

SERIAL NUMBER: 07370686  
PATENT NUMBER: 5078628

SERIAL NUMBER: 07247608  
PATENT NUMBER: 5026211

SERIAL NUMBER: 07066207  
PATENT NUMBER: 4819211

SERIAL NUMBER: 07092401  
PATENT NUMBER: 4819971

SERIAL NUMBER: 06919439  
PATENT NUMBER: 4693339

SERIAL NUMBER: 06465615  
PATENT NUMBER: 4475028

FILING DATE: 08/30/1991  
ISSUE DATE: 01/05/1993

FILING DATE: 09/30/1991  
ISSUE DATE: 12/08/1992

FILING DATE: 04/24/1989  
ISSUE DATE: 01/14/1992

FILING DATE: 06/23/1989  
ISSUE DATE: 01/07/1992

FILING DATE: 09/22/1988  
ISSUE DATE: 06/25/1991

FILING DATE: 06/25/1987  
ISSUE DATE: 04/04/1989

FILING DATE: 09/02/1987  
ISSUE DATE: 04/11/1989

FILING DATE: 10/16/1986  
ISSUE DATE: 09/15/1987

FILING DATE: 02/10/1983  
ISSUE DATE: 10/02/1984

JEEVON JONES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

APR 21 2003

06-20-2002

Form PTO-1595  
(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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ET

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Newport News Shipbuilding and  
Dry Dock CompanyAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: March 28, 2002

2. Name and address of receiving party(ies)

Name: Northrop Grumman Corporation

Internal Address: M/S 30/110/31

GROUP 1700

APR 24 2003

Street Address:

1840 Century Park East

City: Los Angeles State: CA Zip: 90067

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s): 6,254,070

If this document is being filed together with a new application, the execution date of the application is: N/A

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☒ Yes ☐ No5. Name and address of party to whom correspondence  
concerning document should be mailed:

Name: Northrop Grumman Corporation

Internal Address: \_\_\_\_\_

Attn: Terry J. Anderson

Mail Stop 30/110/31

Street Address: \_\_\_\_\_

1840 Century Park East

City: Los Angeles State: CA Zip: 90067

6. Total number of applications and patents involved: 75

7. Total fee (37 CFR 3.41).....\$ 3,000.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

14-1325

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy  
is a true copy of the original document.

Terry J. Anderson

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: 9

Main documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

06/19/2002 6TON11 00000054 141325 6254070

01 FC:581 40.00 CH

## ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS

WHEREAS, Newport News Shipbuilding and Dry Dock Company, a corporation created and existing under the laws of the State of Virginia, is either the sole and exclusive owner or has an ownership interest in the United States Patents specified in Exhibit A, the United States Patent Applications specified in Exhibit B, the foreign patents specified in Exhibit C, and the foreign patent applications specified in Exhibit D, (collectively referred to as "Patent Property"); and

WHEREAS, Northrop Grumman Corporation, a Delaware corporation having an address of 1840 Century Park East, Los Angeles, CA 90067, is desirous of acquiring all of the right, title and interest of Newport News Shipbuilding and Dry Dock Company into and under said Patent Property, and the inventions disclosed therein and covered thereby:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN, that for and in consideration of the sum of money to Newport News Shipbuilding and Dry Dock Company in hand paid or to be paid by said Northrop Grumman Corporation, and other good and valuable consideration, receipt and sufficiency of which is hereby acknowledged, said Newport News Shipbuilding and Dry Dock Company, by these presents has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to said Northrop Grumman Corporation, all of the Newport News Shipbuilding and Dry Dock Company's right, title and interest to said Patent Property, and to any and all inventions described in said Patent Property in the United States, its territorial possessions and all foreign countries, and in any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for letters patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, treaties, including all future conventions, unions, agreements, acts, and treaties, the same to be held and enjoyed by said Northrop Grumman Corporation for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term or terms for which letters patent are or may be granted or reissued as fully and entirely to the same extent as the same would have been held and enjoyed by said Newport News Shipbuilding and Dry Dock Company, if this assignment and sale had not been made; together with all claims for damages or injunctive relief by reason of infringements of such letters patent resulting from said Patent Property, with the right to sue for past infringement, and collect the same for its own use and behoof and for the use and behoof of its successors, assigns or other legal representatives.

And said Newport News Shipbuilding and Dry Dock Company hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all letters patent of the United States on said inventions or resulting from said Patent Property or any continuations-in-part, continuations, divisions, substitutes, reissues or extensions thereof to said Northrop Grumman Corporation, as assignee of the entire interest, and hereby covenants that Newport News Shipbuilding and Dry Dock Company has full right to convey the interests herein assigned, and that it has not executed, and will not execute, any agreement in conflict herewith.

Newport News Shipbuilding and Dry Dock Company agrees that upon request by Northrop Grumman Corporation, or its successors, assigns or other legal representatives that Newport News Shipbuilding and Dry Dock Company or its successors, assigns or other legal representatives shall do all other legal acts reasonably necessary to carry out the intent of this assignment at the assignee's expense and request as well as provide such other material, information, or assistance as assignee or its successors, assigns or other legal representatives may consider necessary.

IN TESTIMONY WHEREOF, Newport News Shipbuilding and Dry Dock Company has caused these presents to be signed by its duly authorized representative, this 28th day of March 2002.

Newport News Shipbuilding and Dry Dock Company

By: \_\_\_\_\_

Name: John H. Mullan

Title: Vice President and Secretary

State of California  
County of Los Angeles

On 3/28/02 before me, Kathleen M. Salmas

personally appeared John H. Mullan

personally known to me - ~~OR~~ - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal,

Kathleen M. Salmas  
Signature of Notary Public

IN TESTIMONY WHEREOF, Northrop Grumman Corporation has caused these presents to be signed by its duly authorized representative, this 28th day of March 2002.

Northrop Grumman Corporation

By: 

Name: John H. Mullan

Title: Corporate Vice President & Secretary

State of California

County of Los Angeles

On 3/28/02 before me, Kathleen M. Salmas

personally appeared John H. Mullan

personally known to me ~~OR~~ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal,



Kathleen M. Salmas

Signature of Notary Public